



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511M)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

73806-6

Date of Issuance:

8/22/2025

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

PFS KP 46

Name and Address of Registrant (include ZIP Code):

Plant Food Systems, Inc.
P.O. Box 775
Zellwood, FL 32798

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency. In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Gina Burnett, Senior Regulatory Advisor
Biochemical Pesticides branch
Biopesticides and Pollution Prevention Division (7511M)
Office of Pesticide Programs

Date:

8/22/2025

2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to EPA.
3. Make the following labeling change before you release this product for shipment:
 - Revise EPA Registration Number to read, "EPA Reg. No. 73806-6."
4. The alternate brand names: KLITE Systemic Bactericide and K-Lite Systemic Fungicide Bactericide have been added to the product's records.
5. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 05/30/2025

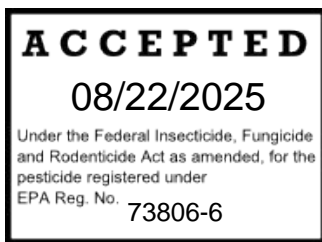
If you have any questions, please contact Menyon Adams by phone at (202) 566-1604 or via email at adams.menyon@epa.gov.

Sincerely,



Gina Burnett, Senior Regulatory Advisor
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

Enclosure



MASTER LABEL

Primary Brand Name: PFS KP 46

[Alternate Brand Name: KLITE SYSTEMIC FUNGICIDE BACTERICIDE, K-LITE SYSTEMIC FUNGICIDE BACTERICIDE]

A systemic fungicide bactericide formulated with GroRX™ technology for the control of downy mildew, phytophthora, pythium, Huanglongbing (HLB, Citrus Greening Disease) and other listed diseases on agricultural and greenhouse crops, indoor and outdoor ornamentals, citrus, bedding plants and forestry applications and domestic trees including conifers, pines, oaks and turf.

ACTIVE INGREDIENTS:

Mono- and dipotassium salts of Phosphorous Acid* 46%

OTHER INGREDIENTS: 54%

TOTAL: 100%

* Contains 5.63 lbs./gallon of active ingredients, mono-and dipotassium salts of Phosphorous Acid. Equivalent to 3.47 lbs. Phosphorous Acid/gallon.

* PFS KP 46's unique manufacturing process and molecule are protected by the following patents:

Reactor: 4724132

Molecule: 7887616, 8221516, and 8088191

A: SUBLABEL – COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS SUBJECT TO WORKER PROTECTION STANDARD

B: SUBLABEL – COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS SUBJECT TO WORKER PROTECTION STANDARD (TRUNK INJECTION ONLY)

C: SUBLABEL – HOUSEHOLD PRODUCTS: FOR NON-COMMERCIAL APPLICATORS (NOT SUBJECT TO WORKER PROTECTION STANDARD)

MANUFACTURED BY:
PLANT FOOD SYSTEMS, INC
2827 Union St. P.O. Box 775
Zellwood, FL 32798
www.PlantFoodSystems.com

EPA Reg. No. 73806-A
EPA Est. No. 73806-FL-001
Batch Code:

**SUBLABEL A – COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS
SUBJECT TO WORKER PROTECTION STANDARD**

[START BOOKLET FOR SUBLABEL A]

Primary Brand Name: PFS KP 46

[Alternate Brand Name: KLITE SYSTEMIC FUNGICIDE BACTERICIDE, K-LITE SYSTEMIC FUNGICIDE
BACTERICIDE]

PRODUCT INFORMATION:

A systemic fungicide bactericide for the control of downy mildew, phytophthora, pythium, and other listed diseases on agricultural and greenhouse crops and turf.

ACTIVE INGREDIENTS:

Mono- and dipotassium salts of Phosphorous Acid* 46%

OTHER INGREDIENTS: 54%

TOTAL: 100%

* Contains 5.63 lbs./gallon of active ingredients, mono-and dipotassium salts of Phosphorous Acid.
Equivalent to 3.47 lbs. Phosphorous Acid/gallon.

* PFS KP 46's unique manufacturing process and molecule are protected by the following patents:

Reactor: 4724132

Molecule: 7887616, 8221516, and 8088191

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID STATEMENTS	
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, contact the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00am to 12:00pm Pacific Time (NPIC Website: www.npic.orst.edu). For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week.	

See Inside booklet for First Aid and Additional Precautionary Statements.

NET CONTENTS

- ☐ 2 1/2 gallons
- ☐ 5 gallons
- ☐ 30 gallons
- ☐ 55 gallons

MANUFACTURED BY:
PLANT FOOD SYSTEMS, INC
2827 Union St. P.O. Box 775
Zellwood, FL 32798
www.PlantFoodSystems.com

EPA Reg. No. 73806-A
EPA Est. No. 73806-FL-001

Fruit & Vegetable Graphic

(may appear on Front Panel or elsewhere of sublabels bearing fruit and vegetable crops)



Citrus

(May appear on front panel or elsewhere on sublabels.)



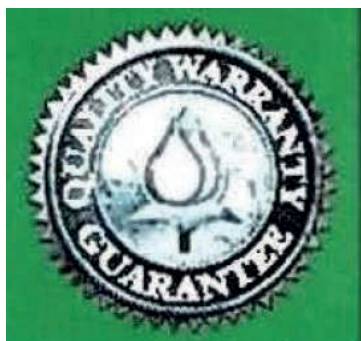
Turf & Ornamental Graphic

(may appear on Front Panel or elsewhere of sublabels bearing turf and ornamental crops)



Quality Warranty Graphic

(may appear on Front Panel or elsewhere of sublabels):



Text of graphic: “Quality Warranty Guarantee”

Text accompanying graphic: “Plant Food Systems’ products use only quality materials with no byproducts or downstream contaminants for consistent performance & results.”

Ag Container Recycling Council (ACRC) Graphic

(may appear on Front Panel or elsewhere of commercial (non-consumer) sublabels:



Text of graphic: “Ag Container Recycling Council, Sustained Product Stewardship”

NOTE: Colors utilized in above graphics may vary on the actual final printed labels

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical-resistant gloves
- protective eyewear

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607 (d-f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS BOX

Users should remove PPE/clothing immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

Do not apply this product in a way that will contact workers or other person, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

GENERAL APPLICATION INSTRUCTIONS

PFS KP 46 is used for control of Downy Mildew, Powdery Mildew, *Erwinia amylovora*, Pythium, Fusarium, Rhizoctonia and Phytophthora disease (such as purple blotch, late blight, blue mold, soft rot, root rot, brown rot, foot rot, crown/collar rot, canker, fruit/foliar rot, fire blight, heart rot, pink rot, pythium leak, red stele, leather rot, etc.) of agronomic crops. (See specific crop groupings for additional diseases.) This product may be applied up to the day of harvest (0-day PHI).

Apply PFS KP 46 by various application methods, including foliar sprays, trunk injection, soil drench, soil incorporation, and bare root dip. For foliar sprays, apply PFS KP 46 with sufficient water for adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wet.

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add PFS KP 46 slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

For 1-gallon (3.785 liters) container sizes: this package can treat up to 34,848 sq. ft. at the maximum treatment rate.

For 2 ½-gallon (9.463 liters) container sizes: this package can treat up to 2 acres at the maximum treatment rate.

For 5-gallon (18.925 liters) container sizes: this package can treat up to 4 acres at the maximum treatment rate.

LOW VOLUME AND ULTRA-LOW VOLUME APPLICATIONS

Label rates are written for conventional application equipment. For LV/ULV equipment, use per acre rate of PFS KP 46 and adjust amount of water to equipment needs. Always conduct a phytotoxicity test on a small area before applying to a large area in order to assess any potential risk to plants.

SEED TREATMENT APPLICATION INSTRUCTIONS (NOT FOR USE IN CALIFORNIA)

PFS KP 46 is a water-based liquid formulation designed for easy use as seed treatment, and will not form sediment during normal storage. It may be applied using commercial seed treatment equipment or through the use of a hopper-box, planter-box, slurry-box or other seed treatment equipment at or immediately before planting. Equipment should be calibrated to provide a good mixing of seed and treatment products and provide even distribution and coverage of the seed. Uniform application to seed will give optimum performance. The seed must be sound, well-conditioned, and free from dust and chaff.

PFS KP 46 can be pre-diluted with clean water sufficient for coverage and other seed amendments can also be mixed with it as required, and the total volume of slurry adjusted according to the application equipment and seed type. Apply gentle agitation during mixing and use, and **do not store the diluted product overnight.**

This product may be applied only on seeds for crops listed on this label. Do not use treated seed for food or feed purposes or process for oil.

If this product is intended for commercial seed treatment, treated seed must be labeled in accordance with the requirements of the Federal Seed Act and applicable State seed laws. An approved dye must be added to distinguish treated seed and prevent inadvertent use for food, feed, or oil purposes. If this product is intended for treatment at planting, treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time. To dispose of excess treated seed, bury away from streams and bodies of water. A dye is not required if excess seed is disposed of by burial.

SEED TREATMENT APPLICATION RATES

Apply PFS KP 46 uniformly to seed at rates of 2-12 fl oz/100 lb of seed. Adjust rate of use depending on disease pressure, seed size, density, and ability to absorb liquid.

USE RESTRICTIONS AND PRECAUTIONS

- Store treated seed in cool dry conditions
- Any treated seed which is stored until the following season must be re-tested for germination and vigor prior to planting.

PFS KP 46 is compatible with most commonly used seed amendment products. Do not tank-mix with any other product unless adequate physical compatibility and phytotoxicity (germination) tests have been conducted and proven to be satisfactory. See compatibility statement below. Consult your supplier or advisor for further information.

COMPATIBILITY

Mixing PFS KP 46 with certain surfactants, foliar fertilizers or other pesticides may cause crop injury. Do not mix PFS KP 46 without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity). It is not possible to test all material combinations and environmental tank mix combinations. Always conduct a test with the intended tank mix on a small area prior to any large-scale applications. To determine if a combination is phytotoxic to a specific crop, spray a small area of foliage and fruit, and then evaluate 3-7 days later for visual symptoms.

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents) with PFS KP 46 before use.

To determine the compatibility of PFS KP 46 with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

CHEMIGATION

APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

Apply this product through microsprinkler, drip, solid set and center pivot sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

PREPARATION OF INJECTION EQUIPMENT: Remove scale, pesticide residues and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: Fill tank with 1/2 to 3/4 of desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of PFS KP 46, then the remaining volume of water. Set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the solution of PFS KP 46 into the irrigation water line so as to deliver the desired rate per acre. Inject the PFS KP 46 solution with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. For other questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: For Microsprinkler and Drip Irrigation Systems: Avoid further irrigation of the treated area for 24 to 48 hours after treatment with PFS KP 46 has been completed. For Solid Set and Center Pivot Irrigation Systems: Avoid further irrigation of the PFS KP 46 treated area until after the foliage has completely dried. This will help to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in mix tank during mixing and application to assure uniformity solution. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product must be dismantled or drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of chemigation water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut down and adjust the system as needed.

Do not connect an irrigation system (including greenhouse system) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

GENERAL INSTRUCTIONS FOR APPLICATIONS

FOOD CROPS

(ALL STATES EXCEPT CALIFORNIA)

Brassica Crop Grouping: Broccoli (all types), Brussels sprouts, Cabbage (all types), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach and Rape greens.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. nebraskensis) Fusarium Phytophthora Pseudomonas spp. (including syringae) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including campestris)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Soil Directed or Injected Application	2-4 quarts in min 20 gallons/acre. Lightly irrigate after application.
	Foliar Spray Application	1-4 quarts in a minimum of 40 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Cereal Grains, Forage and Fiber Crop Grouping: Alfalfa, Barley, Buckwheat, Canola, Clover (all types), Corn (all types), Cotton, Hay, Kudzu, Lespedeza, Lupin, Millet, Oats, Popcorn, Rice, Rye, Safflower, Sainfoin, Sorghum, Sunflower, Teosinte, Trefoil, Triticale, Vetch, Wheat and Wild rice.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

PFS KP 46 may be applied to Roundup Ready crops to lessen the effects of associated diseases with yield drag and crop setback. Applications can be made at planting, with fertilizer side dressing, tank mixed with Roundup applications, or as a separate foliar application. (Roundup Ready is a trademark of Monsanto Technology LLC.)

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Pseudomonas spp. (including <i>syringae</i>) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
	Soil Directed or Injected Application	2-4 quarts in min 20 gallons/acre. Lightly irrigate after application.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 40 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Citrus crops (including subtypes, hybrids and citrus-like crops), Avocado and Other Tropical and Subtropical Fruits (Bearing and Non-Bearing).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days. Apply PFS KP 46 for the control of soil borne and other listed diseases in citrus crops following the “3-6-9™” Program recommendation.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora (soil borne and aerial phases, including brown rot) Pseudomonas spp. (including <i>syringae</i>) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including <i>campestris</i>) Huanglongbing (HLB, Citrus Greening Disease) ^A	Foliar Spray Application	1-3 quarts in a minimum of 50 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation ^A	4-8 quarts in at least 400 gallons of water/acre.
	Transplant Drench/Dip	2 quarts/100 gallons of water, 2/3 fluid ounce/gallon of water. Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into the tree. Apply according to injection equipment instructions. Adjust rate on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Soil /Root Drench ^A	1-2 gallons/100 gallons of water or 1.25-2.5 fluid ounces per gallon. Apply 5-10 gallons of diluted solution per tree. Adjust volume as needed to thoroughly drench area around trunk. Apply at 3-4-week intervals and repeat as needed.
	Soil Directed or Injected Application ^A	4-8 quarts in min 20 gallons of water/acre.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust Huanglongbing (HLB, Citrus Greening Disease) ***	Foliar Spray Application	1-4 quarts in a minimum of 100 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

*** Use a minimum of 2 quarts per acre. The addition of a Fertilizer, such as Renew® RX or PFS Keypon® RX, may improve control. A non-ionic surfactant may also be used.

^A For use on indicated application methods only.

Cucurbit Crop Grouping: Cantaloupe, Chayote, Chinese waxgourd, Citron melon, Cucumber (all types), Gherkin, Gourd, Honeydew, Muskmelon, Pumpkin, Squash (summer and winter) and Watermelon.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Pseudomonas spp. (including <i>syringae</i>) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
	Soil Directed or Injected Application	2-4 quarts in min 20 gallons/acre. Lightly irrigate after application.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 40 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Grapes and Cane Berry Crop Grouping: Grapes (all types), Blackberry (including bingberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, Lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or hybrids of these), Blueberry, Cane Berries, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry and Raspberry (black and red).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea	Foliar Spray Application	1-3 quarts in a minimum of 10 gallons of water/acre.
Cercospora (Cercospora arachidicola)	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
Cercosporidium (Cercosporidium personatum)	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
Clavibacter (michiganensis subsp. Nebraskensis)	Planter Bed, Root Dip or Transplant Drench	1-2 ounces/1000 ft. of row.
Fusarium		1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water.
Phytophthora		Apply as pre-planted dip to the roots for 15-30 minutes. Plant within 24 hours.
Pseudomonas spp. (including syringae)		
Pythium	Soil Directed or Injected Application	2-8 quarts in min 20 gallons/acre.
Ralstonia solanacearum		
Rhizoctonia		
Sclerotinia		
Xanthomonas spp. (including campestris)		
Alternaria	Foliar Spray Application	1-4 quarts in a minimum of 50 gallons of water/acre.
Anthrachnose	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
Downy Mildew		
Powdery Mildew		
Rust		

* Check with your local Extension Agent if you are unsure these conditions exist.

Herbs and Spices Crop Grouping: Allspice, Angelica, Anise, Annatto, Balm, Basil, Borage, Bumet, Camomile, Caper buds, Caraway, Cardamom, Cassia bark and buds, Catnip, Celery seed, Chervil, Chive, Cinnamon, Clary, Clove, Cocoa, Coriander, Costmary, Cilantro, Cumin, Curry, Dill, Fennel, Fenugreek (Methi), Grains of paradise, Hops, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage, Mace, Marigold, Marjoram, Methi, Mint, Mustard, Nasturtium, Nutmeg, Parsley (all types), Pennyroyal, Pepper, Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff and Wormwood.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Pseudomonas spp. (including <i>syringae</i>) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
	Soil Directed or Injected Application	2-4 quarts in min 20 gallons of water/acre. Lightly irrigate after application.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 50 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Legume Vegetables Crop Grouping: Bean (all types), broad bean (fava bean), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean, Lentil, Pea (all types), Peanut, Pigeon pea, Soybean and Sword bean.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

PFS KP 46 may be applied to Roundup Ready crops to lessen the effects of associated diseases with yield drag and crop setback. Applications can be made at planting, with fertilizer side dressing, tank mixed with Roundup applications, or as a separate foliar application. (Roundup Ready is a trademark of Monsanto Technology LLC.)

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium (Sudden Death) Phytophthora Pseudomonas spp. (including <i>syringae</i>) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including <i>campestris</i>) Early and Late Leaf Spot on Peanut	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
	Soil Directed or Injected Application	2-4 quarts in min 20 gallons of water/acre. Lightly irrigate after application.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 25 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Pome Fruits Crop Grouping (Bearing and Non-Bearing) including Papaya: Apple, Crabapple, Loquat, Mayhaw, Papaya, Pear, Pomegranate and Quince.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Pseudomonas spp. (including syringae) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including campestris) Fire Blight (Erwinia amylovora)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-8 quarts in at least 400 gallons of water/acre.
	Transplant Drench/Dip	2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water. Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into the tree. Apply according to injection equipment instructions. Adjust rate on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Soil/Root Drench	1-2 gallons/100 gallons of water or 1.25-2.5 fluid ounces per gallon. Apply 5-10 gallons of diluted solution per tree. Adjust volume as needed to thoroughly drench area around trunk. Apply at 3-4-week intervals and repeat as needed.
	Soil Directed or Injected Application	2-8 quarts in min 20 gallons of water/acre.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 100 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Stone Fruits Crop Grouping including Olives: Apricot, Cherry, Nectarine, Olive, Peach, Plum, Pluot and Prune.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Armillaria Root Rot (Oak Root Fungus) Botryosphaeria dothidea Erwinia Eutypa lata Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Root and Crown Rot Pseudomonas spp. (including syringae) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including campestris) Fire Blight (Erwinia amylovora) Shot Hole Disease (Wilsonomyces carpophilus)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-8 quarts in at least 400 gallons of water/acre.
	Transplant Drench/Dip	2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water. Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into the tree. Apply according to injection equipment instructions. Adjust rate on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Soil/Root Drench	1-2 gallons/100 gallons of water or 1.25-2.5 fluid ounces per gallon. Apply 5-10 gallons of diluted solution per tree. Adjust volume as needed to thoroughly drench area around trunk. Apply at 3-4 week intervals and repeat as needed.
	Soil Directed or Injected Application	2-8 quarts in min 20 gallons of water/acre.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 50 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Tree Nuts Crop Grouping: Almond, Areca (Betelnut Palm), Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Kiwi, Macadamia nut, Pecan, Pistachio and Walnut.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Armillaria Root Rot (Oak Root Fungus) Botryosphaeria dothidea Eutypa lata Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Cladosporium caryigenum Clavibacter (michiganensis subsp. Nebraskensis) Fusarium Phytophthora Root and Crown Rot Pseudomonas spp. (including syringae) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including campestris)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-3 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-8 quarts in at least 400 gallons of water/acre.
	Transplant Drench/Dip	2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water.
		Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into the tree.
		Apply according to injection equipment instructions. Adjust rate on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Soil/Root Drench	1-2 gallons/100 gallons of water or 1.25-2.5 fluid ounces per gallon.
		Apply 5-10 gallons of diluted solution per tree. Adjust volume as needed to thoroughly drench area around trunk. Apply at 3-4-week intervals and repeat as needed.
	Soil Directed or Injected Application	2-8 quarts in min 20 gallons of water/acre.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust Scab	Foliar Spray Application	1-4 quarts in a minimum of 100 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

Vegetables Crop Grouping Including Miscellaneous Food Crops: (Leafy, Root and Tuber) Amaranth (Chinese Spinach, Tampala, etc.) Arracacha, Arugula, Arrowroot, Artichoke (all types), Asparagus, Beet (all types), Burdock, Canna, Cardoon, Carrot, Cassava, Celery, Celery, Chayote, Chervil (Turnip-rooted), Chicory, Chilies, Chrysanthemum (edible), Chufa, Cinchoca, Coconut, Coffee, Corn (all types), Cress (all types), Dandelion, Dasheen, Dock, Eggplant, Endive, Fennel, Garlic, Ginger, Ginseng, Horseradish, Leren, Lettuce (all types), Okra, Onion (all types), Orach, Parsley, Parsnip, Peppers (all types), Pineapple, Purslane, Potato (all types), Radicchio, Radish (all types), Rhubarb, Rutabaga, Salisify (all types), Skirret, Spinach (all types), Strawberry, Sugarbeet, Sugarcane, Sweet Potato, Swiss Chard, Tanier, Tobacco, Tomato, Turmeric, Turnip, Yam (all types).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cercospora (Cercospora arachidicola) Cercosporidium (Cercosporidium personatum) Cladosporium caryigenum Clavibacter (michiganensis subsp. nebraskensis) Fusarium Fusicladium effusum Phytophthora Pseudomonas spp. (including syringae) Pythium Ralstonia solanacearum Rhizoctonia Sclerotinia Xanthomonas spp. (including campestris)	Foliar Spray Application	1-4 quarts in a minimum of 20 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
	Chemigation	2-4 quarts in at least 400 gallons of water/acre.
	Planter Bed, Root Dip or Transplant Drench	1-2 ounces /1000 ft. of row. 1-2 quarts/100 gallons of water, 1/3 – 2/3 fluid ounce/gallon of water. Can be applied prior to, during or after transplanting, in seed furrow, knife injected near seed, or over covered seed bed.
	Soil Directed or Injected Application	2-4 quarts in min 20 gallons of water/acre. Lightly irrigate after application.
Late Blight (Phytophthora infestans) Pink Rot (Phytophthora erythroseptica)	Foliar Spray Application	3-5 quarts in a minimum of 40 gallons of water/acre.
	Aerial Application Equipment	3-5 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.
Alternaria Anthracnose Downy Mildew Powdery Mildew Rust	Foliar Spray Application	1-4 quarts in a minimum of 40 gallons of water/acre.
	Aerial Application Equipment	1-4 quarts in a minimum of 5 gallons of water/acre. Not to exceed a 10% concentration.

* Check with your local Extension Agent if you are unsure these conditions exist.

ORNAMENTALS

PFS KP 46 is used for control of Pythium, Downy Mildew, Powdery Mildew, Phytophthora and other listed diseases of ORNAMENTALS grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. Apply PFS KP 46 to all ornamental and landscape plants including (but not limited to): Aglaonema, Aphelandra, Arborvitae, Ash, Azaleas, Bougainvillea, Boxwood, Bushes, *Cattleya skinneri*, Cedars, Ceanothus, Cotoneaster, Cissus, Diffenbachia, Dogwood, Ferns, Ficus, Flowering Trees, Hibiscus, Hard Wood Trees, Holly, Home Lawns, Juniper, Magnolia Trees, Maple, Pines, Oaks, Palms, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Red woods, Rhododendron, Roses, Schefflera, Sedum, Sempervivum, Shrubs, Spathiphyllum, Sycamore, Taxus media, Zygocactus.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Anthracnose Fire Blight (<i>Erwinia amylovora</i>) Fusarium Geranium Wilt (<i>Ralstonia spp.</i>) Phytophthora Pythium Rhizoctonia Xanthomonas spp (Including <i>campestris</i>)	Foliar Spray	1-2 quarts in a minimum of 100 gallons of water/acre or 1/3 – 2/3 fluid ounce/gallon of water.
	Soil Drench	12-24 fluid ounce/100 gallon of water or 1/8 – 1/4 fluid ounce per gallon of water
	Soil Incorporation	1-2 pints/cubic yard of soil mix. Mix 1 to 2 pints of PFS KP 46 with enough water to wet one cubic yard of soil; mix immediately before potting. If conditions are favorable for disease development, make additional applications as a foliar spray or soil drench.
	Irrigation	Overhead: 1-2 quarts/100 gallons of water. Drip: 1-2 quarts/100 gallons of water. Apply with normal irrigation schedule.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into tree. Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Root Dip	2 quarts/100 gallons of water or 2/3 fluid ounce/gallon of water. Dip transplants into diluted solution of PFS KP 46. Thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.
Downy Mildew Powdery Mildew	Foliar Spray	1-2 quarts/100 gallons of water or 1/3 - 2/3 fluid ounce/gallon of water

* Check with your local Extension Agent if you are unsure these conditions exist.

BEDDING PLANTS

PFS KP 46 is used for control of Downy Mildew, Powdery Mildew, Pythium, Phytophthora and other listed diseases of bedding plants grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. Apply PFS KP 46 to the following bedding plants: Ageratum, Algerian Ivy, Alyssum, Anthurium, Artemisia, Aster, Baby's Breath, Begonia, Caladium, Carnation, Chrysanthemum, Coleus, Columbine, Daisy, Delphinium, Easter Lily, English Ivy, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Marigold, Pansy, Petunia, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Verbena, Vinca, Zinnia, etc.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Anthracnose Fire Blight <i>(Erwinia amylovora)</i> Fusarium Phytophthora Pythium Rhizoctonia	Foliar Spray	1-2 quarts in a minimum of 100 gallons of water/acre or 1/3 – 2/3 fluid ounce/gallon of water. Apply diluted solution to thoroughly wet foliage. Apply at 2-3-week intervals and repeat as needed.
	Root Dip	2 quarts/100 gallons of water or 2/3 fluid ounces/gallon of water. Dip transplants into diluted solution of PFS KP 46. Thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.
	Soil Drench	12-24 fluid ounces/100 gallons of water of 1/8 to 1/4 fluid ounce/gallon of water.
	Irrigation	Overhead: 1-2 quarts/100 gallons of water. Drip: 1-2 quarts/100 gallons of water. Apply with normal irrigation schedule.
Downy Mildew Powdery Mildew	Foliar Spray	1-2 quarts/100 gallons water or 1/3 - 2/3 fluid ounce/gallon of water. Apply diluted solution to thoroughly wet foliage. Apply at 2-3-week intervals and repeat as needed. Do not apply more than 6 times per crop cycle or year.

* Check with your local Extension Agent if you are unsure these conditions exist.

CONIFERS AND TREES IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS, LANDSCAPES AND PARKS (INCLUDING CHRISTMAS TREES, OAKS and PINES)

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

PFS KP 46 applied in conjunction with good cultural management practices will control Phytophthora root rot of conifers including (but not limited to): Douglas Fir, spruce and pines also other Phytophthora disease of Oaks (Sudden Oak Death) and forest trees. Use the higher rates when disease pressure is severe. Do not apply to trees that are under heat or moisture stress. *Do not graze livestock in treated conifer nurseries and/or plantations. Do not feed forage to livestock from treated nurseries and/or plantations.

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Phytophthora Sudden Oak Death	Foliar Spray	1-2 quarts in a minimum of 100 gallons of water/acre.
	Soil Drench	12-24 fluid ounces/100 gallons of water of 1/8 to 1/4 fluid ounce/gallon of water. Apply 1-2 pts. of diluted solution per sq. foot. Adjust volume as needed to thoroughly wet media.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). Inject directly into tree. Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.
	Root Dip	2 quarts/100 gallons of water or 2/3 fluid ounce/gallon of water. Apply as a pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.

***Do not graze livestock in treated conifer nurseries and/or plantations. Do not feed forage to livestock from treated nurseries and/or plantations.**

TURF

PFS KP 46 is a systemic Fungicide/Bactericide, which is used for the control of Pythium blight, Summer Complex (Bermuda and others), Dollar Spot, Grey Leaf Spot, Brown Patch, Anthracnose and damping-off diseases to turf grasses and commercial turf production. Use higher rates under severe disease conditions.

APPLICATION GUIDELINES:

Apply amount in minimum of 2 gallons of water per 1,000 sq. ft.

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Acidovorax Algae Alternaria Anthracnose (<i>Colletotrichum graminicola</i>) Bacterial Wilt Cercospora Helminthosporium Gray Snow Mold Phytophthora Pink Snow Mold Pythium (Yellow Turf) Rhizoctonia Sclerotinia Xanthomonas Fusarium	Foliar Spray	3-6 fluid ounces/1000 square feet. (Fairways: 2-6 fluid ounces/1000 square feet.) Or 3-6 quarts/100 gallons of water/acre.
	Irrigation	Overhead: 2-4 quarts/acre in at least 100 gallons of water.

***Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.**

GENERAL INSTRUCTIONS FOR APPLICATIONS FOR CALIFORNIA USE ONLY

Brassica Crop Grouping: Broccoli (all types), Brussels sprouts, Cabbage (all types), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach and Rape greens.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Planter Bed, Root Dip or Transplant Drench	Root Dip Only: 1 quart/100 gallons of water. 1/3 fluid ounce/gallon of water (2.5 liters/1000 liters of water).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Cereal Grains, Forage and Fiber Crop Grouping: Alfalfa, Barley, Buckwheat, Canola, Clover (all types), Corn (all types), Cotton, Hay, Kudzu, Lespedeza, Lupin, Millet, Oats, Popcorn, Rice, Rye, Safflower, Sainfoin, Sorghum, Sunflower, Teosinte, Trefoil, Triticale, Vetch, Wheat and Wild rice.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Citrus crops (including subtypes, hybrids and citrus-like crops), Avocado and Other Tropical and Subtropical Fruits (Bearing and Non-Bearing).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days. PFS KP 46 is the key product of the “3-6-9™” Program developed for the control of soil borne and other disease in citrus crops.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea Fusarium Phytophthora (soil borne and aerial phases, including brown rot) Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>) Huanglongbing (HLB, Citrus Greening Disease) ^A	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Transplant Drench/Dip	Root Dip: 2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water (5 liter/1000 liters of water)
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). (15 milliliters/linear meter of canopy width or 5 centimeters DBH). Inject directly into the tree.
	Irrigation ^A	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Downy Mildew Huanglongbing (HLB, Citrus Greening Disease) ***	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

*** Use a minimum of 2 quarts per acre. The addition of a Fertilizer, such as RenewRx® or KeyponRx®, may improve control. A non-ionic surfactant may also be used.

^A For use on indicated application methods only.

Cucurbit Crop Grouping: Cantaloupe, Chayote, Chinese waxgourd, Citron melon, Cucumber (all types), Gherkin, Gourd, Honeydew, Muskmelon, Pumpkin, Squash (summer and winter) and Watermelon.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Grapes and Cane Berry Crop Grouping: Grapes (all types), Blackberry (including bingberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, Lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or hybrids of these), Blueberry, Cane Berries, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry and Raspberry (black and red).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Planter Bed, Root Dip or Transplant Drench	Root Dip Only: 2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water (5 liters/1000 liters of water).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Herbs and Spices Crop Grouping: Allspice, Angelica, Anise, Annatto, Balm, Basil, Borage, Bumet, Camomile, Caper buds, Caraway, Cardamom, Cassia bark and buds, Catnip, Celery seed, Chervil, Chive, Cinnamon, Clary, Clove, Cocoa, Coriander, Costmary, Cilantro, Cumin, Curry, Dill, Fennel, Fenugreek (Methi), Grains of paradise, Hops, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage, Mace, Marigold, Marjoram, Methi, Mint, Mustard, Nasturtium, Nutmeg, Parsley (all types), Pennyroyal, Pepper, Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff and Wormwood.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Legume Vegetables Crop Grouping: Bean (all types), broad bean (fava bean), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean, Lentil, Pea (all types), Peanut, Pigeon pea, Soybean and Sword bean.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>) Early and Late Leaf Spot on Peanut	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Pome Fruits Crop Grouping (Bearing and Non-Bearing) including Papaya: Apple, Crabapple, Loquat, Mayhaw, Papaya, Pear, Pomegranate and Quince.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>) Fire Blight (<i>Erwinia amylovora</i>)	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Transplant Drench/Dip	2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water. (5 liters/1000 liters of water). Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). (15 milliliters/linear meter of canopy width or 5 centimeters DBH). Inject directly into the tree.
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Stone Fruits Crop Grouping including Olives: Apricot, Cherry, Nectarine, Olive, Peach, Plum, Pluot and Prune.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea Fusarium Phytophthora Root and Crown Rot Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Transplant Drench/Dip	Root Dip Only: 2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water. (5 liters/1000 liters of water).
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). (15 milliliters/linear meter of canopy width or 5 centimeters DBH). Inject directly into the tree.
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Tree Nuts Crop Grouping: Almond, Areca (Betelnut Palm), Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Kiwi, Macadamia nut, Pecan, Pistachio and Walnut.

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Botryosphaeria dothidea Cladosporium caryigenum Fusarium Phytophthora Root and Crown Rot Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Transplant Drench/Dip	Root Dip Only: 2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water. (5 liters/1000 liters of water).
	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH). (15 milliliters/linear meter of canopy width or 5 centimeters DBH). Inject directly into the tree. Betelnut Palm: ¼ to 1 fl. oz. per tree.
	Soil/Root Drench	1-2 gallons/100 gallons of water or 1.25 to 2.5 fluid ounces per gallon of water (10-20 liter/1000 liters of water).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Downy Mildew Powdery Mildew	Foliar Spray Application	1-3 quarts in a minimum of 100 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-3 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

Vegetables Crop Grouping Including Miscellaneous Food Crops: (Leafy, Root and Tuber) Amaranth (Chinese Spinach, Tampala, etc.) Arracacha, Arugula, Arrowroot, Artichoke (all types), Asparagus, Beet (all types), Burdock, Canna, Cardoon, Carrot, Cassava, Celeriac, Celery, Chayote, Chervil (Turnip-rooted), Chicory, Chilies, Chrysanthemum (edible), Chufa, Cinchoca, Coconut, Coffee, Corn (all types), Cress (all types), Dandelion, Dasheen, Dock, Eggplant, Endive, Fennel, Garlic, Ginger, Ginseng, Horseradish, Leren, Lettuce (all types), Okra, Onion, Orach, Parsley, Parsnip, Peppers (all types), Pineapple, Purslane, Potato (all types), Radicchio, Radish (all types), Rhubarb, Rutabaga, Salisify (all types), Skirret, Spinach (all types), Strawberry, Sugarbeet, Sugarcane, Sweet Potato, Swiss Chard, Tanier, Tobacco, Tomato, Turmeric, Turnip, Yam (all types).

APPLICATION GUIDELINES:

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Cladosporium caryigenum Fusarium Phytophthora Pythium Rhizoctonia Xanthomonas spp. (including <i>campestris</i>)	Foliar Spray Application	1-4 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 100 liters of water/hectare).
	Aerial Application Equipment	1-4 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).
	Planter Bed, Root Dip or Transplant Drench	Root Dip Only: 2 quarts/100 gallons of water. 2/3 fluid ounces/gallon of water (5 liters/1000 liters of water).
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water (7-9 liters in at least 1000 liters of water). Drip: 2-3 quarts in at least 100 gallons of water (5-7 liters in at least 1000 liters of water).
Late Blight (<i>Phytophthora infestans</i>) Pink Rot (<i>Phytophthora erythroseptica</i>)	Foliar Spray Application	3-5 quarts in a minimum of 20 gallons of water/acre (5 to 7 liters in a minimum of 100 liters of water/hectare). Note: 1-gallon container will not be sufficient for treating pink rot and late blight at the highest given application rate. An additional 1-gallon container or a larger container size will be necessary to achieve the maximum treatment rate.
	Aerial Application Equipment	3-5 quarts in a minimum of 20 gallons of water/acre (5 to 7 liters in a minimum of 100 liters of water/hectare). Note: 1-gallon container will not be sufficient for treating pink rot and late blight at the highest given application rate. An additional 1-gallon container or a larger container size will be necessary to achieve the maximum treatment rate.
Anthracnose Downy Mildew Powdery Mildew	Foliar Spray Application	1-4 quarts in a minimum of 20 gallons of water/acre (5-7 liters in a minimum of 1000 liters of water/hectare).
	Aerial Application Equipment	1-4 quarts in a minimum of 10 gallons of water/acre (5-7 liters in a minimum of 75 liters of water/hectare).

* Check with your local Extension Agent if you are unsure these conditions exist.

TURF

PFS KP 46 is a systemic Fungicide/Bactericide, which is used for the control of Pythium blight, Summer Complex (Bermuda and others), Dollar Spot, Grey Leaf Spot, Brown Patch, Anthracnose and damping-off diseases to turf grasses and commercial turf production. Use higher rates under severe disease conditions.

APPLICATION GUIDELINES:

Apply amount in minimum of 2 gallons of water per 1,000 sq. ft.

Disease Prevention Program*: Apply lower rate at 7-28-day intervals. Do not apply PFS KP 46 at intervals less than 3 days.

Disease Control Program: Apply higher rate at 7-14-day intervals until control is reached. Under severe circumstances, as described below, application can be made at intervals of up to every three days. Consult with Farm Advisor, Licensed Agricultural Pest Control Advisor or Certified Crop Advisor to determine disease severity.

Do not apply PFS KP 46 at intervals less than 3 days.

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Alternaria Anthracnose (<i>Colletotrichum graminicola</i>) Helminthosporium Pythium (Yellow Turf) Rhizoctonia Sclerotinia	Foliar Spray	3 to 6 fluid ounces/1000 square feet (30 to 60 milliliters/100 square meters). OR 3 to 6 quarts/100 gallons of water/acre (7 to 15 liters/1000 liters of water/hectare).
	Irrigation	Overhead: 2-3 quarts/acre (5-7 liters/hectare) in at least 100 gallons of water.

***Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.**

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE STORAGE: Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

NONREFILLABLE CONTAINERS: Do not reuse or refill this container. Clean container promptly after emptying.

NONREFILLABLE CONTAINER EQUAL TO OR LESS THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 120 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NONREFILLABLE CONTAINER GREATER THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty and Disclaimer

NOTICE TO BUYER

To the extent permitted by law, all conditions and warranties, and statutory or other rights of action which buyer or any other user may have against Plant Food Systems Inc. or seller are hereby excluded. Plant Food Systems Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Plant Food Systems Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. Plant Food Systems Inc.'s liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price thereof.

[END BOOKLET FOR SUBLABEL A]

**SUBLABEL B – COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS
SUBJECT TO WORKER PROTECTION STANDARD (TRUNK INJECTION ONLY)**

[START BOOKLET FOR SUBLABEL B]

Primary Brand Name: PFS KP 46

[Alternate Brand Name: KLITE SYSTEMIC FUNGICIDE BACTERICIDE, K-LITE SYSTEMIC FUNGICIDE BACTERICIDE]

A systemic fungicide bactericide formulated with GroRX™ technology for the control of downy mildew, phytophthora, pythium, and other listed diseases on agricultural and greenhouse crops, indoor and outdoor ornamentals, bedding plants and forestry applications, and domestic trees including conifers, pines, oaks and turf.

ACTIVE INGREDIENTS:

Mono- and dipotassium salts of Phosphorous Acid* 46%

OTHER INGREDIENTS: 54%

TOTAL: 100%

* Contains 5.63 lbs./gallon of active ingredients, mono-and dipotassium salts of Phosphorous Acid (Mono and dipotassium poly phosphite). Equivalent to 3.47 lbs. Phosphorous Acid/gallon.

* PFS KP 46's unique manufacturing process and molecule are protected by the following patents:

Reactor: 4724132

Molecule: 7887616, 8221516, and 8088191

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID STATEMENTS	
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, contact the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00am to 12:00pm Pacific Time (NPIC Website: www.npic.orst.edu). For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week.	

See Inside booklet for First Aid and Additional Precautionary Statements.

NET CONTENTS

☐ 2 1/2 gallons (9.463 liters)

☐ 30 gallons (113.6 liters)

☐ 55 gallons (208.2 liters)

☐ Bulk Containers (100 – 4000 gallons)

☐ Other _____

MANUFACTURED BY:
PLANT FOOD SYSTEMS, INC
2827 Union St. P.O. Box 775
Zellwood, FL 32798
www.PlantFoodSystems.com

EPA Reg. No. 73806-A
EPA Est. No. 73806-FL-001
Batch Code:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical-resistant gloves
- protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607 (d-f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS BOX

Users should remove PPE/clothing immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

Do not apply this product in a way that will contact workers or other person, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

GENERAL APPLICATION INSTRUCTIONS

PFS KP 46 Systemic Fungicide/Bactericide is used for control of Downy Mildew, Powdery Mildew, *Erwinia amylovora*, *Pythium*, *Fusarium*, *Rhizoctonia* and *Phytophthora* disease (such as purple blotch, late blight, blue mold, soft rot, root rot, brown rot, foot rot, crown/collar rot, canker, fruit/foiar rot, fire blight, heart rot, pink rot, pythium leak, red stele, leather rot, etc.) of agronomic crops. (See specific crop groupings for additional diseases.) This product may be applied up to the day of harvest (0-day PHI).

Apply PFS KP 46 by various application methods, including foliar sprays, trunk injection, soil drench, soil incorporation, and bare root dip. For foliar sprays, apply PFS KP 46 with sufficient water for adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wet.

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add PFS KP 46 slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

For 1-gallon (3.785 liters) container sizes: this package can treat up to 34,848 sq. ft. at the maximum treatment rate.

For 2 ½-gallon (9.463 liters) container sizes: this package can treat up to 2 acres at the maximum treatment rate.

For 5-gallon (18.925 liters) container sizes: this package can treat up to 4 acres at the maximum treatment rate.

LOW VOLUME AND ULTRA-LOW VOLUME APPLICATIONS

Label rates are written for conventional application equipment. For LV/ULV equipment, use per acre rate of PFS KP 46 and adjust amount of water to equipment needs. Always conduct a phytotoxicity test on a small area before applying to a large area in order to assess any potential risk to plants.

COMPATIBILITY

Mixing PFS KP 46 with certain surfactants, foliar fertilizers or other pesticides may cause crop injury. PFS KP 46 is a slightly acidic buffer solution. Do not mix PFS KP 46 without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity). It is not possible to test all material combinations and environmental tank mix combinations. Always conduct a test with the intended tank mix on a small area prior to any large-scale applications. To determine if a combination is phytotoxic to a specific crop, spray a small area of foliage and fruit, and then evaluate 3-7 days later for visual symptoms.

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents) with PFS KP 46 before use.

To determine the compatibility of PFS KP 46 with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

CHEMIGATION

APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

Apply this product through microsprinkler, drip, solid set and center pivot sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

PREPARATION OF INJECTION EQUIPMENT: Remove scale, pesticide residues and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: Fill tank with 1/2 to 3/4 of desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of PFS KP 46, then the remaining volume of water. Set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the solution of PFS KP 46 into the irrigation water line so as to deliver the desired rate per acre. Inject the PFS KP 46 solution with a positive displacement pump into the main line ahead of a right angle turn to insure

adequate mixing. For other questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: For Microsprinkler and Drip Irrigation Systems: Avoid further irrigation of the treated area for 24 to 48 hours after treatment with PFS KP 46 has been completed. For Solid Set and Center Pivot Irrigation Systems: Avoid further irrigation of the PFS KP 46 treated area until after the foliage has completely dried. This will help to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in mix tank during mixing and application to assure uniformity solution. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product must be dismantled or drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of chemigation water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut down and adjust the system as needed.

Do not connect an irrigation system (including greenhouse system) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

GENERAL INSTRUCTIONS FOR APPLICATIONS FOOD CROPS

Citrus Crop Grouping (Bearing and Non-Bearing) including Avocado: Avocado, Calamondin, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange (all types), Pummelo and Satsuma mandarin.

Pome Fruits Crop Grouping: (Bearing and Non-Bearing) Apple, Crabapple, Loquat, Mayhaw, Pear and Quince.

Stone Fruits Crop Grouping: Apricot, Cherry, Nectarine, Peach, Plum, Plumbcot and Prune.

Tree Nuts and Vines Crop Grouping: Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Grapes, Hickory Nut, Macadamia Nut, Pecan, Pistachio and Walnut.

ORNAMENTALS

PFS KP 46 is used for control of Pythium, Downy Mildew, Phytophthora and other listed diseases of ORNAMENTALS grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes.

Apply PFS KP 46 to ornamental and landscape plants including: Boxwood, Cedars, Ceanothus, Dogwood, Ficus, Flowering Trees, Hard Wood Trees, Juniper, Magnolia Trees, Pines, Oaks, Palms, Photinia, Pieris, Red Woods and Shrubs.

CONIFERS AND TREES IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS, LANDSCAPES AND PARKS (INCLUDING CHRISTMAS TREES, OAKS and PINES)

PFS KP 46 applied in conjunction with good cultural management practices will control Phytophthora root rot of conifers including (but not limited to): Douglas Fir, spruce and pines also other Phytophthora disease of Oaks (Sudden Oak Death) and forest trees. Use the higher rates when disease pressure is severe. Do not apply to conifers that are under heat or moisture stress.

Disease	Application Method	Rate	Application Program
Bacterial Blight (<i>Xanthomonas campestris</i>) Fire Blight (<i>Erwinia amylovora</i>) Fusarium Phytophthora Pythium Rhizoctonia Sudden Oak Death	Trunk or Bark Injection	3 teaspoons/linear yard of canopy width or 2 inches of trunk diameter at breast height (DBH) (15 milliliters/linear meter of canopy width or 5 centimeters DBH). Inject directly into tree.	Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE STORAGE: Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

NONREFILLABLE CONTAINERS: Do not reuse or refill this container Clean container promptly after emptying.

NONREFILLABLE CONTAINER EQUAL TO OR LESS THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 120 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NONREFILLABLE CONTAINER GREATER THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty and Disclaimer

NOTICE TO BUYER

To the extent permitted by law, all conditions and warranties, and statutory or other rights of action which buyer or any other user may have against Plant Food Systems Inc. or seller are hereby excluded. Plant Food Systems Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Plant Food Systems Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. Plant Food Systems Inc.'s liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price thereof.

[END BOOKLET FOR SUBLABEL B]

**SUBLABEL C – HOUSEHOLD PRODUCTS: FOR NON-COMMERCIAL APPLICATORS
(NOT SUBJECT TO WORKER PROTECTION STANDARD)**

[START BOOKLET FOR SUBLABEL C]

Primary Brand Name: PFS KP 46

[Alternate Brand Name: KLITE SYSTEMIC FUNGICIDE BACTERICIDE, K-LITE SYSTEMIC FUNGICIDE BACTERICIDE]

A systemic fungicide bactericide formulated with GroRX™ technology for the control of downy mildew, phytophthora (such as Sudden Oak Death, Root Rot, Brown Rot), pythium (Damping-off, Summer Stress), and other listed diseases in garden plants, ornamental trees and plants, Phytophthora in conifers, pines and oaks, and Pythium in turf.

ACTIVE INGREDIENTS:

Mono- and dipotassium salts of Phosphorous Acid* 46%

OTHER INGREDIENTS: 54%

TOTAL: 100%

* Contains 5.63 lbs./gallon of active ingredients, mono-and dipotassium salts of Phosphorous Acid (Mono and dipotassium poly phosphite). Equivalent to 3.47 lbs. Phosphorous Acid/gallon.

* PFS KP 46's unique manufacturing process and molecule are protected by the following patents:

Reactor: 4724132

Molecule: 7887616, 8221516, and 8088191

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID STATEMENTS	
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information concerning this product, contact the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00am to 12:00pm Pacific Time (NPIC Website: www.npic.orst.edu). For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week.	

See Inside booklet for First Aid and Additional Precautionary Statements.

NET CONTENTS

☐ 2 1/2 gallons (9.463 liters)

☐ 30 gallons (113.6 liters)

☐ 55 gallons (208.2 liters)

☐ Bulk Containers (100 – 4000 gallons)

☐ Other _____

MANUFACTURED BY:

EPA Reg. No. 73806-A

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

(For containers with contents greater than 5 gallons Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.)

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

- 1 pint (0.473 liters) makes 24 gallons of solution at maximum treatment rate.
- 1 quart (0.946 liters) makes 48 gallons of solution at maximum treatment rate.
- 1 gallon (3.785 liters) makes 192 gallons of solution at maximum treatment rate.
- 2 1/2 gallons (9.463 liters) makes 480 gallons of solution at maximum treatment rate.
- 5 gallons (18.925 liters) makes 960 gallons of solution at maximum treatment rate.

GENERAL APPLICATION INSTRUCTIONS

PFS KP 46 is used for control of Downy Mildew, Powdery Mildew, Erwinia amylovora, Pythium, Fusarium, Rhizoctonia and Phytophthora disease (such as purple blotch, late blight, blue mold, soft rot, root rot, brown rot, foot rot, crown/collar rot, canker, fruit/foiar rot, fire blight, heart rot, pink rot, pythium leak, red stele, leather rot, etc.) of agronomic crops. (See specific crop groupings for additional diseases.) This product may be applied up to the day of harvest (0 day PHI).

Apply PFS KP 46 by various application methods, including foliar sprays, trunk injection, soil drench, soil incorporation, and bare root dip. For foliar sprays, apply PFS KP 46 with sufficient water for adequate coverage of foliage, according to crop and growth stage. To insure good coverage, spray to wet.

COMPATIBILITY

Mixing PFS KP 46 with certain surfactants, foliar fertilizers or other pesticides may cause crop injury. Do not mix PFS KP 46 without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity). It is not possible to test all material combinations and environmental tank mix combinations. Always conduct a test with the intended tank mix on a small area prior to any large-scale applications. To determine if a combination is phytotoxic to a specific crop, spray a small area of foliage and fruit, and then evaluate 3-7 days later for visual symptoms.

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents) with PFS KP 46 before use.

To determine the compatibility of PFS KP 46 with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add PFS KP 46 slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

INSTRUCTIONS FOR APPLICATIONS

GARDEN CROPS, ORNAMENTALS, BEDDING PLANTS AND TREES (CONIFERS, OAKS, ETC.) & TURF

PFS KP 46 is used for control of Pythium, Downy Mildew, Phytophthora (such as Sudden Oak Death, *Phytophthora ramorum*) and other listed diseases (see list below) of ORNAMENTAL PLANTS AND TREES. Plants, which can be treated with PFS KP 46, include:

GARDEN CROPS

PFS KP 46 is used for control of Downy Mildew, Powdery Mildew, Pythium, Phytophthora and other listed diseases (such as purple blotch, late blight, blue mold, soft rot, root rot, brown rot, foot rot, crown/collar rot, canker, fruit/foliar rot, fire blight, heart rot, pink rot, pythium leak, red stele, leather rot, etc.) of garden crops. Apply PFS KP 46 to plants including (but not limited to): Almond, Apple, Apricot, Artichoke, Asparagus, Avocado, Baby Lettuce, Banana, Beet, Blackberry, Blueberry, Broadbean, Cane Berries, Carrot, Cherry, Chestnut, Chilies, Cinchona, Cinnamon, Citrus, Cole Crops, Corn, Cranberry, Crucifers, Cucurbits, Dates, Dry Beans, Eggplant, Fresh beans, Garlic, Grapes, Kiwi, Lettuce, Lima Beans, Macadamia, Melons, Mint, Nectarine, Nut Crops, Nutmeg, Okra, Olive, Onion, Papaya, Peach, Peanut, Pear, Peas, Peppers, Pineapple, Plum, Pome Fruit, Potato, Prune, Raspberry, Rhubarb, Root crops, Rosemary, Spinach, Squash, Strawberry, String Beans, Stone Fruit, Sugarbeet, Sunflower, Tomato, Walnut.

BEDDING PLANTS, TREES & ORNAMENTALS

Ageratum, Algerian Ivy, Aglaonema, Alyssum, Anthurium, Aphelandra, Arborvitae, Artemisia, Ash, Aster, Azaleas, Baby's Breath, Begonia, Bougainvillea, Boxwood, Caladium, Carnation, *Cattleya skinneri*, Ceanothus, Chrysanthemum, Coleus, Columbine, Cotoneaster, Cissus, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Firs, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly, Juniper, Leather-leaf Fern, Magnolia, Maple, Marigold, Monterey Pine, Oaks, Pansy, Petunia, Peperomia, Philodendron, Phlox, Photinia, Pines, Pinks, Pittosporum, Pieris, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rhododendron, Roses, Salvia, Schefflera, Sedum, Sempervivum, Snapdragon, Spathiphyllum, Taxus media, Spruces, Sycamore, Verbena, Vinca, White Cedar, White Pine, Zinnia, Zygocactus, etc.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Do not exceed the use rates or apply more frequently than the specified interval or plant injury can occur. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION GUIDELINES
Anthraxnose Fire Blight (<i>Erwinia amylovora</i>) Fusarium Phytophthora Pythium Rhizoctonia	Foliar Spray	1/3 fluid ounce to 2/3 fluid ounce/gallon of water (2.5 – 5 milliliters/liter of water)	Apply diluted solution to thoroughly wet foliage. Apply at 2-3-week intervals and repeat as needed. Do not apply PFS KP 46 at intervals less than 3 days.
	Soil Drench	3-6 fluid ounce/25 gallons of water or 1/8 to ¼ fluid ounce per gallon of water. (1-2) liters/1000 liters of water).	Apply 1-2 pts. Of diluted solution per sq. foot. Adjust volume as needed to thoroughly wet media. Apply at 2-3-week intervals and repeat as needed. Do not apply PFS KP 46 at intervals less than 3 days.
	Soil Incorporation	1/2- 1 pt./1/2 cubic yard (150-300 milliliters/1/2 cubic meter).	Mix to 1/2 – 1 pt. of PFS KP 46 with enough water to wet one cubic yard of soil; mix immediately before potting. If conditions are favorable for disease development, make additional applications as a foliar spray or soil drench.
	Root Dip	2/3 fluid ounce/gallon of water (5 milliliters/liter of water)	Dip transplants into diluted solution of PFS KP 46 to thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1-2 minutes.
Downy Mildew Powdery Mildew	Foliar Spray	1/3 fluid ounce to 2/3 fluid ounce/gallon of water (2.5- 5 milliliters/liter of water).	Apply diluted solution to thoroughly wet foliage. Apply at 2-3-week intervals and repeat as needed. Do not apply PFS KP 46 at intervals less than 3 days.

TURF

PFS KP 46 is a systemic Fungicide/Bactericide, which is used for the control of Pythium blight, Summer Complex (Bermuda and others), Dollar Spot, Grey Leaf Spot, Brown Patch, Anthracnose and damping-off diseases to turf grasses on sod farms and commercial turf production. Use higher rates under severe disease conditions.

APPLICATION GUIDELINES:

Apply amount in minimum of 2 gallons of water per 1,000 sq. ft.

Apply at 7-28-day intervals as needed. Do not mow or irrigate treated areas until sprays have completely dried.

For sod farms and large areas: Apply diluted solution to thoroughly wet foliage. Apply at 7-14-day intervals and repeat as needed.

Do not apply PFS KP 46 at intervals less than 3 days.

DISEASE	APPLICATION METHOD	RATE/APPLICATION
Acidovorax Algae Alternaria Anthracnose (<i>Colletotrichum graminicola</i>) Bacterial Wilt Cercospora Helminthosporium Gray Snow Mold Phytophthora Pink Snow Mold Pythium (Yellow Turf) Rhizoctonia Sclerotinia Xanthomonas Fusarium	Foliar Spray	3-6 fluid ounces/1000 square feet. (Fairways: 2-6 fluid ounces/1000 square feet.) Or 3-6 quarts/100 gallons of water/acre.
	Irrigation	Overhead: 2-4 quarts/acre in at least 100 gallons of water.

*Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE STORAGE: Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

NONREFILLABLE CONTAINERS: Do not reuse or refill this container. Clean container promptly after emptying.

NONREFILLABLE CONTAINER EQUAL TO OR LESS THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 120 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NONREFILLABLE CONTAINER GREATER THAN 5 GALLONS: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty and Disclaimer

NOTICE TO BUYER

To the extent permitted by law, all conditions and warranties, and statutory or other rights of action which buyer or any other user may have against Plant Food Systems Inc. or seller are hereby excluded. Plant Food Systems Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Plant Food Systems Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. Plant Food Systems Inc.'s liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price thereof.

[END BOOKLET FOR SUBLABEL C]

[DO 20250808]